DIRECTUPS
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MARS 1K/1.5K/3K

Powerful On-Line UPS

Microprocessor Control
By means of innovative software and control programs, the complicated hardware circuitry is inlaid in the powerful microprocessor. Apart from reduced size, it also lowers the defective rate of UPS.

Communication Ports
Titan Offers three different communication ports for user selection: RS-232, USB card, SNMP card and AS-400 card. Through either one of them, the user can control and monitor UPS status easily.

Extended Backup Time
Long Backup Models are allowed to connect external batreries to get prolonged backup time. The feature is particularly suitable for the areas where power supply are consistently in shortage.

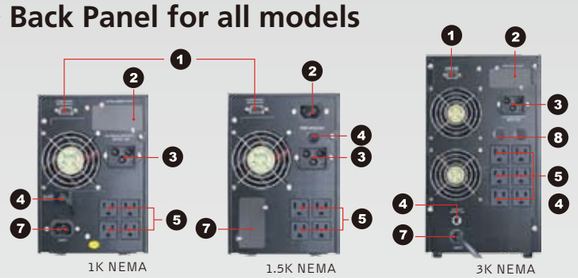
Auto Self-Testing System
When turning on the Titan UPS system, it immediately performs an inspection of the components such as the inverter, the battery, and the load. The system will also detect any problems in time to avoid causing any damage to the system.

Modular Design
Titan 1-3KVA is the modular design UPS. There are many small modular boards on the Power Board. They are Fan module, charger module, Power Supply module, DC-DC module, PFC module and PWM Driver module etc. The modular design helps technicians to maintain and repair the UPS easily and the product performance will be more stable.

User Selectable Output Voltage
Titan enables users to select corresponding output voltage to the local mains power without changing hardware. Users can select output voltage by just pushing a button.

Power Management Software
To provide the battery control of the Titan UPS system, we developed a free download software, Winpower, available online for you to moniter and manage UPS Working Status easily and in real time.

Back Panel for all models



1. Communication Port
2. Intelligent Slot
3. External Battery Socket (For S model ONIY)
4. Breaker
5. Output Socket
6. Network / Fax / Modem Surge Protection
7. Input Socket
8. Fuse

110/115/120V Online UPS Specification

MODEL			MARS 1K	MARS 1Ks*	MARS 1.5K	MARS 1.5Ks*	MARS 3K	MARS 3Ks*
CAPACITY	VA/W		1000VA/700W		1500VA/1050W		3000VA/2100W	
INPUT	Voltage		60~138VAC					
	Voltage Range	Base on load percentage (100%-70% / 70%-60% / 60%-50% / 50%-40% / 40%-0%)						
		Low Line Transfer	80VAC/70VAC/70VAC/60VAC/60VAC					
		Low Line Comeback	85VAC/85VAC/75VAC/75VAC/65VAC					
		High Line Transfer	138VAC					
		High Line Comeback	133VAC					
	Frequency Range		46Hz ~ 54Hz / 56Hz ~ 64Hz					
	Phase		Single phase with ground					
	Power Factor		≧0.95					
OUTPUT	Voltage		110VAC/115VAC/120VAC					
	Voltage Regulation		±2%					
	Frequency (Synchronized range)		46Hz ~ 54Hz / 56Hz ~ 64Hz					
	Frequency (Battery Mode)		50/60Hz ± 0.2 Hz					
	Current Crest Ratio		3:1					
	Harmonic Distortion		≦4% THD (Linear Load) ≦7% THD (Non-Linear Load)					
	Output Waveform		Pure Sinewave					
EFFICIENCY	Tower Case	To AC Mode	85%		83%		86%	
		To Battery Mode	83%		82%		83%	
	Rack Case	To AC Mode	85%		83%		86%	
		To Battery Mode	83%		82%		83%	
BATTERY	Tower Case	Battery Type	12V/7.2Ah	Depending on thecapacity of external batteries	12V/7.2Ah	Depending on thecapacity of external batteries	12V/7.2Ah	Depending on thecapacity of external batteries
		Numbers of Batteries	3		4		8	
		Backup Time (Full Load)	＞5 minutes		＞5 minutes		＞5 minutes	
		Recharge Time	8 hours to 90%		8 hours to 90%		8 hours to 90%	
		Charging Current (Max.)	1.0A	8A	1.0A	8A	1.0A	8A
		Charging Voltage	41.1Vdc 0.6V		54.9Vdc 0.4V		110Vdc 0.4V	
	Rack Case	Battery Type	12V/7.2Ah	Depending on thecapacity of external batteries	12V/7.2Ah	Depending on thecapacity of external batteries	12V/7.2Ah	Depending on thecapacity of external batteries
		Numbers of Batteries	3		4		8	
		Backup Time (Full Load)	＞5 minutes		＞5 minutes		＞5 minutes	
		Recharge Time	8 hours to 90%		8 hours to 90%		8 hours to 90%	
		Charging Current (Max.)	1.0A	8A	1.0A	8A	1.0A	8A
		Charging Voltage	41.1Vdc +0.6V/-0.8V		54.9Vdc +0.4V		110Vdc 0.4V	
		External Battery Rack	N/A	12V/7.2Ahx6	N/A	12V/7.2Ahx8	N/A	12V/7.2Ahx8
TRANSFER TIME	AC to DC		Zero					
	Inverter to Bypass		2.5ms (Typical)				Zero	
INDICATOR	Status		Load Level / Battery Level / Battery Mode / AC Mode / Bypass Mode / Fault					
AUDIBLE ALARM	Battery Mode		Sounding every 4 seconds					
	Low Battery		Sounding every second					
	Overload		Sounding twice every second					
	Fault		Continuously Sounding					
DIMENSION	Tower Case (DxWxH) mm		400x145x220		465x145x220		465x192x340	
	Rack Case (DxWxH) mm		482.6x450x87(w. battery)		482.6x450x88		482.6x450x88	
WEIGHT	Tower Case		13 kgs	7 kgs	17.5 kgs	9 kgs	33 kgs	16 kgs
	Rack Case	UPS Case	15.3 kgs	9.1 kgs	19.3 kgs	11.5 kgs	11.2 kgs	12.3 kgs
		Battery Pack	N/A	20.5 kgs	N/A	25.3 kgs	N/A	25.3 kgs
ENVIRONMENT	Operating Temperature		0-40˚C					
	Relative Humidity		20-90% (Non-Condensing)					
	Noise Level		＜45dB @ 1Meter		＜45dB @ 1Meter		＜50dB @ 1Meter	
INTERFACE	Smart RS-232		Windows family , Linux, Sun Solaris, IBM Aix, Compaq True64, SGI IRIX, FreeBSD, HP-UX, and MAC					
	SNMP (option)		Power management from SNMP manager and web browser					
	USB (optional)		Windows family and Mac OS					

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